Montana

Science and Engineering Profile

Characteristic	State	U.S.	Rank	Characteristic	State	U.S.	Rank
Doctoral scientists, 1999[1]	1,830	518,670	44	Total R&D performance, 1998 (millions)	$191	$214,668	45
Doctoral engineers, 1999[1]	110	107,100	49	Industry R&D, 1998 (millions)	$82	$163,480	44
S&E doctorates awarded, 1999[1]	58	25,953	43	Academic R&D, 1998 (millions)	$72	$25,342	44
of which, in life sciences	38%	25%		of which, in life sciences	64%	57%	
in physical sciences	28%	14%		in physical sciences	10%	9%	
in psychology	17%	14%		in engineering	10%	16%	
S&E postdoctorates, 1998[1]				Public higher education current-fund			
in doctorate-granting institutions	92	39,494	40	expenditures, 1997 (millions)	$446	$125,236	44
S&E graduate students, 1998[1]				Number of SBIR awards, 1990-98	64	35,413	39
in doctorate-granting institutions	1,205	422,834	46	Patents issued to state residents, 1999	125	83,901	44
Population, 1999 (thousands)	883	276,580	45	Gross state product, 1998 (billions)	$20	$8,800	49
Civilian labor force, 1999 (thousands)	474	140,536	45	of which, agriculture	4%	1%	
				manufacturing, mining, construction	17%	22%	
Personal income per capita, 1999	$22,019	$28,542	48	transportation, communication, utilities	12%	9%	
				wholesale and retail trade	17%	16%	
Federal spending				finance, insurance, real estate	14%	19%	
Total expenditures, 1999 (millions)	$6,225	$1,508,933	43	services	20%	21%	
R&D obligations, 1998 (millions)	$81	$70,445	46	government	16%	12%	

NOTE: Rankings and totals are based on data for the 50 States, District of Columbia, and Puerto Rico. Reliability of the estimates of industry R&D and of doctoral scientists and engineers varies by State, because the sample allocation was not based on geography. The rankings do not take into account the margin of error of estimates from sample surveys.

[1]Data on graduate students, doctoral scientists and engineers, and postdoctorates include all graduate degree (except M.D.) candidates and recipients in S&E fields, including health fields. Data on S&E doctorates awarded do not include health fields.

Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1998

Agency	Performer							
	Total	Federal Intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank, total
	[In thousands of dollars]							
Total, all agencies	80,670	33,101	0	9,897	32,949	3,149	1,574	46
Department of Agriculture	17,657	11,597	0	15	4,665	1,380	0	30
Department of Commerce	5,091	53	0	0	4,738	300	0	24
Department of Defense	12,793	2,621	0	5,246	4,926	0	0	43
Department of Energy	984	0	0	35	875	0	74	44
Dept. of Health & Human Services	12,861	5,011	0	714	5,764	1,222	150	45
Department of the Interior	14,887	13,794	0	31	841	0	221	8
Department of Transportation	1,229	0	0	0	100	0	1,129	43
Environmental Protection Agency	321	0	0	0	321	0	0	45
National Aeronautics and Space Admin	6,177	25	0	3,437	2,579	136	0	37
National Science Foundation	8,670	0	0	419	8,140	111	0	42
State rank, total	46	39	na	45	43	38	43	na

NOTE: Federal R&D obligations are as reported by funding agencies. Ranks and totals are based on data for the 50 States, District of Columbia, and Puerto Rico.

KEY: FFRDC = federally funded research and development center; SBIR = small business innovation research; na = not applicable.

SOURCES: Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources -- see the section, "Data Sources for Science and Engineering (S&E) State Profiles".